

MEASURING SMALL AMOUNTS: FROM FISSION PHYSICS TO ENVIRONMENTAL RADIOCHEMISTRY. Howard L. Hall, Chemistry and Materials Science Directorate, Lawrence Livermore National Laboratory L-226, Livermore, CA 94551.

Since attending the first *DOE/ACS Summer School in Nuclear and Radiochemistry* in 1984, a central theme of my work has been high-sensitivity measurements. This presentation details some interesting results over the last twelve years ranging from low-energy fission to environmental radiochemistry. In the area of delayed fission, enough cases of this decay mode have been characterized that we are now contemplating "third generation" experiments with tools such as Gammasphere. In environmental radiochemistry, work has included studies of naturally-occurring radionuclides as well as radioactive waste disposal policy issues.

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ABSTRACT. Please be BRIEF—150 words maximum if possible. Title of paper should be ALL CAPS; author(s) listed by first name, middle initial, last name; indicate address w/zip code. SINGLE SPACE, BLACK INK.

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